AVAION

The Oldest American Aeronautical Magazine

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SPECIAL FEATURES

NUMBER 23

FUEL AND OIL CONSUMPTION ON LONG DISTANCE FLIGHTS NATIONS CONFER HONORS ON CAPT. CHARLES A. LINDBERGH CHICAGO, THE AIR TRANSPORT CENTER

AVIATION PUBLISHING CORP.
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250 W. 57TH ST., NEW YORK
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Aug. 6 1922



Now First Of World's Greatest Commercial Airplane Companies

WACO is first in volume of sales in the Amplane Industry. Once more the general public has proven that it will always seek out the individual manufacturer who disegrated outworn peiceiples and practices and brings them something unmintakably seev, unmintakably progenive and unmintakably superior in service.

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Announcing the

Pitcairn Fleetwing Deluxe

The Pitcairn Fleetwing Deluxe—thoroughly modern in design—is characterized throughout by the care and craftsmanship of Pitcairn construction. This three-place plane, powered with a new OX 5 motor, is distringuished by speed, maneuverability and unality of construction.

The Pitcairn Fleetwing Deluxe has been placed on the market to serve the interests of those who are able to pay the higher price necessary to obtain superior workmanship and maximum performance.

Just as the higher priced automobile proves itself the best investment in the long run, so this plane because of its durability, reliability and low maintenance cost will prove itself a truly economical nurchase.

We welcome your personal inspection and trial of the Pitcairn Fleetwing Deluxe. Illustrated descriptive trambhlet will be mailed on request.

PITCAIRN AIRCRAFT INC

LAND TITLE BUILDING PHILADELPHIA

as-YEAR old awarer, thrise

alone, has lungally on the

world after. New York waited

went wild with resoluting when

the word was flashed. "He's on

In 1116 hours, Cant. Lindbergh

flew over 1700 miles, a few days

Paris. 11

Mobiloil flies

3700-mile flight gives lubrication



In a press interview shortly after his arrival in Paris, Lindbergh said, "We had the worst possible weather way the ship and the motor speed un under all this membrane.

cames obviol in important role.

Then could be no musake. The

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ing fight from San Diego to New Cape Lindbergh placed his enviro

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with Lindbergh

its greatest test in history

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In your place Mobiled will give monble-free lebrication part as it dal in Care. Lindbergh's place And Mobiloit dealers are nearby

Charles A. Lindberch

And now-Capt Landbergh ber



VACUUM OIL COMPANY Other branches and distribution ways many une . New York, Chicago, Philadelphia, Basser, Buffale, Detroit, Pittsburgh, Minnespells, St. Conis, Kansas City, Dollar warehouses throughout the country

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ANNOUNCING A NEW FLYING COURSE BY CURTISS FLYING SERVICE, INC.

Curtiss Flying Service, Inc. is now prepared to offer to a limited number of specially qualified students, a new type of flying course, designed particularly for those who intend to follow flying as a poofession.

Through cooperation of the U. S. Amy Air Corps, graduates of this course will be accepted as Reserve offices and be permitted to thy government aircraft at no expense to themselves. That they can modelly fat themselves for positions as because of the control pilots.

graduates and men with college educations or the equivalent. Further information will be furnished upon request. Applicants should state clearly their educational qualifications to avoid manuforstandings.

IN ADDITION —

We are continuing to offer our standard ten hour flying course which has started many famous pilots on the way to acromunical success. Over 500 students have gusdanted from this course sizes 1919.

Careius Flying Service students are trained by the oldest flying organization in the world, operating one of the businest imports in the United States. Our equipment and personnel are licensed by the United States Department of Commerce.

"Flying time is here"

CURTISS FLYING SERVICE, INC.



THE Standard Col Company (Indiana), well harvon to sevation of the Modelle West and the semicolaterizer of Remondle Avisation Goodness and Area Olio, has now given a further appears to conservated vacation by the Area Olio, has now given a further appears to conservated vacation by the This plane, which was high by the Broot Hard Araphage Diversion of the Fould Motor Company, in the law word in passenger arisphane conservations. When the Cold of Arabage Diversion of the Fould Motor Company, in the law word in passenger arisphane conservation of Motor Company, in the law word in passenger arisphane contribution of Winglan and 19 of Area did payer accordance, developing a small of 600 thesis process. It has a consisting spend of 100 trinls per how, and a company addition of 500 miles, it covers depth passengers is adultant to the two pieces.

The place was preclained, not as a plaything or an advertisement, but for the purpose of increasing the efficiency of the origination and saving the time of the officials. The Campany operates over a serritory covering half as continent. It is frequently measure jet the discovers matchedness and of making jummeys to breach offices to redirection in the outlying parts of this nearrancy. By tracking in this place instead of by mili, they can save a full day's time on some of the length reps.

public interest in commercial winton and increase confidence in the safety of air conveyances.

Standard Assarces Guichine and Aero Oils way be purchased
as a proposable of landare halds in the Malife West.

STANDARD OIL COMPANY
General Officer 910 S Michigan Avenue CHICAGO

CHICAGO, ILLINOIS

Euro-







seater commercial cabin monoplane broke the world's receed for cheatino of sustained flight by the wide margin of ux bours, by staying in the air for 51 hours, 11 minutes, 25 seconds.

That this famous model was

equipped with the equally famous Bohn Ring True Bearings is just further proof of this peoduct's high standards and high stancing.

The custings in motors of this type are made of Behnalite B.

BOHN ALUMINUM & BRASS CORPORATION DETROIT, INCHICAN ALEO MARKED OF ROPHILLITE CAPTINGS



BOHNALITE



The tremendous thrust imposed by 3150 pounds of dead weight on the take-off, ingether with 33½ hours of continuous propeller action was more than offset bythe standy construction of SRB Deazings, of maximum number of balls,
"Mahaydeky-milk-sus-questioned"

ings, of maximum number of balls, hot forged from Molybdenum steel.

What greater test of endurance could hove been overe now hearting?

STANDARD STEEL AND BEARINGS INCORPORATED
Pleaseville us to an out common 575 Convention



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L. D. Western

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With the Editor

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Fuel and Oil Consumption Important Factors On Long Distance Flights

Good Results Obtained by Charles A. Lindbergh With a Whirlacind Att-Gooled Engine on Gross-Continent and Trans-Atlantic Trips _Br R. V. CAUTLEY

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The received and the primary object

There Different Altitudes

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Rulers of Three Nations Confer Honors Upon Captain Charles A. Lindbergh

Wildly Acclaimed in European Capitals While New York City Counletes Plans for History Making Reception

series of congretalistics receptions never before associad a tein Liedbergh's return to the U. S. A. will be comparable It has been estimated that over 200,000 men and wuner

Bestives Order of Lespeld At Ever andress, of Branch some \$4,000 sharing Belpour in the hiney and Queen of Ralgium, descripted with the Order of Leonald and felted by pullfined and melhany leading

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Will Go to Weshington First

was from Wooksparter Senters to Statistic Street, north





AVIATION

Cuptain Landburgh with Frankers Douberness and Authorities North

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ving area and many other structural changes differing from stock models were made. There changes will be deleted by Borold A. Hall Charl Kanness of Person stations. No. in the received any expected to effect Mr. Whelen will revoide.

Lindbook's Bloom Not a Stock Model

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Acres 6 1927

show will are \$1000 for first place \$500 for second \$150 Sor third, \$150 for fourth and \$200 for this piace, while tings of more last any corresponds for stone or a real stone. Facility record and \$500 for third. Some raise spoks. Facility water Field. Sandanath manifold almost, one wife lone and Norw compete current, when manny

Daniel Guggenheim Aids Nungesser Search

Associational has been made of a gift of \$35,000 by first representings are completed, and will be reads from the are by experienced calots who are furniar with the territory.

Bids Denocessary for Extra Ston The Postmater General, Henry S. New, may designate Ashevile, N.C., as an additional step on the prepared con-



June 6, 1927

AVIATION Chicago, The AirTransport Center Six Airlines Now Operating Inspire Eurther Municipal Conservation By EARL D. OSBORN

WETERIA OFFICE allowed with each other to become the flustead for a work formation and display of all distincts. transportation opplar of the United States. The first event next Transcottocated Air Med through Chicago. They come The value of these sliffings to the residents of Changes in great. It means more than over that the city will become the

encouragement, however, has been given to the sixtings to can the city as the base for their execution and maintanance with the transmission. The present and President and their reals affect to Observe but the poster conduct was done at \$2 D, though originally based at Chicago is now operated by the Voothment formers and has its base at Ht Paul. When the the first with production in Chicago

With one execution year Bills Chicago cardial source to noughboring to private are located in Chicago no menufacturing on a large scale has born attempted as not. E. M. Leiel is one of the most forceasily known concerntal designers in the remarky. He has a fee large factory located right as the firm field Lein! has bud how properties in wattern arrows then! THE LAND BY Charles District on the Arr Mail line to St. Fund. Deploy the period of operation of the Fee the Leave use not need in new at work touting my too the scanting-tion of a loss remember plane which will be powered with an OX-5 regime, but well also restings the manufacture of the

well become in the development of accompanies for his many and known in the development of sermantan for his many passes of pleasantan work and his enforcines for light plants, as well as his cospection to Federal Incidence. The show is housed in the offer and contains repreting from mater range to wing hears. Begins, welling and engage controls of the running of a school and a fixing field. The stude-center Value alone which Me Heath is healthing for the Ford Tops

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Sueday as arbitistion pursuints jump is made at the comterritory desire of third place to constructed with visel takmy's field by Lower D. Mrichell.
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remetion with the room, men from New York City to Spa-

September 21. Stape will be required as rapic, the purpose

in presenger personnel and unleading and looking of represe

Commercial Phone Oak \$1000 for third, \$500 for fourth, and \$250 for \$500 place. In the II class for busher becomercy \$15,000 to complet for Provinced, switces sale, for please with union day placement of 800 robbs surbers prints \$2500.

Natural Gord race, relatory phone celly, price \$1000 strings, configure only, for each prime of \$2500 and the troubs Temple man staffing sales for observed 533 sales inches Stern for ralliant charrentian classes, for the Liberty on form opposity william similars, for tending Large expansity military strylanes, for trophics.

Page for record type planes, for the John L. Militali tea. Alle transment around and affidance raises abolition only the Prop. for all women's year or control years and of the Han-

In the San Proposers, Spainters was one for minute stage. at Vanoverer, Wash, will be the only one required. It is any representative a 1000 rate forgrey. The incomer roots in averyimately 2000 pilos

If a foregoer would to ked out how America had do. ked failed, he could not do better than to wait the Yacker

toll of coast he does not they have kept conscient ave-ation after in this country through a very trying period. At present, Venkey, keeden his other activities, in half-ling

There are ever a dress flower fields in the catheine solvenia around Chicaro, but only five of them were victed. There had been a great wind and a terrole had show the week

Assess the most active of the never actial across comprendent, J. E. Stiller, present manager and Edwar E. Lo

Chirago Agreeautical Mexican Class The Chicago Aeronautical Service, of Change, El, bur a At yourse the school has Will stadents surelled for train-

bel. The wines are vary specially made had don to the

habeurs Chunes and Milusulan, with Ware clause.

AVIATION Aug. 6 1697

Commercial Aviation in Russia Expands

Regular Atrines of the Soviet Republic Incressing Business Each Your With Remarkably Faw Accidents

CITAL POLLOWING authority information recording the It shows the expension of our transport in the Sount Republic



The Mesory to Kooppulory and the Mosory to Mesorshops Managakova Wody to Baka to Vella coate was flows flows Other serial operations need as yey-critics, searcy, facust

in the Soviet Republic during the year of 1830 sescents to

5.316 Weekle, 040,580 pulso form and 10,487 passengers

A yearly companion of the partierus, office whom a strate mounty - free 1975 the number of first moddents on the Social Proposition as 1806 these was just our northest and only two parents billed. the Armine assumed of the Denicold, which is forced to operate locast dusting in the North Consume, forest dusting and marked common assectedly Audion 1984 which was a reserenderled on an redarded teste. Legast disting was now over 500 beginning in 1925 and 10,000 beginning in 1925. Ferred dust-

Airways New Lighted for 1,386 Miles

beench has completed 1,360 miles of lightless on signature and in working an other modes as that a wight scharlets as wall as a description of the second fields have been established, 109 bearing and account these underway of rails director become at strategic pelets to mids after make madeline of his middle. to 9,430 maint and will serve eightly-two rities with a completed convolution of absent 20,000,000 in addition to wanteress stops. At that time also, over 7,000 miss of sirvers will stops. At that time also, over some mose or surveys were have been lighted for picket fiving or will be negative emple-

tion of fighting installation.

(a) Debroke, (a) Outcombakest. (a) Resolu-

Fifteen Rallacore Commete in Elimination Race Atter a short delay corned by an electrical storm fifteen

clarable to compute at the interestional pure to be held at photod by Lanz. James Powell with Major Maures B. Sunt. sig swiftly and vacced off toward the north. Between Fixture and Chief Super Prouding E. Masters, side, get even fac-

below the Army Reflect No. 5 Dilborrel. With Not was Libert William C. Europhyse. The helbouriet servicel their collecloss No. 4, from Nortee Fulld, Cobumber, was nest. Laux. People M. McKee was what and Cook Sureed T. Moore was White Such Business and his aids, J. P. Power would From Jaco Scotters and his aids, J. P. Corner, receive Rabut P Lebr was relief and Charles H Both was aids. The last of the month is finen terror. No. 1, of Labebure way the next to take off. It was proved by Lion. T.R.W. olds. The Above Brown Regres believe, the best to bear the coursed, both the six of \$166, wantle torogy educates about

by Limb Pool Point with Light W. St. Officers in and

Particult Point Except with Lance, IL II Officepes on rate.

Flight To India Terminates

Although hern decomplement was felt to Desch avision cannot over ted breakanton away youry mark from Jacob ... of Large, C. H. Care and L. S. M. Curreau, of the Earth Av. Pores, their performance is considered highly evaluable. Landow Courley, more Lenders, Eur., on Friday, May 20. Another hour of nying comes have changed their as given had too so the up recen fit by. Two hours after the start of the field, the flow wave Two hours after the mart of the right, the man were reported over uners. The prace used in the Legal was a machi Hawken-Honder bember, possered with Rolls Ravue

special Hawken-stormey bember, pomeral with Rotts Engin-Condex, 650 hz., engine. The tools revoked 1,350 cml of

Flood Light Tests at Anacostia

AVIATION

respect of May II. From referin made toposterin landages. could be seen that I fee parts made better many that yealer very universally conditions, with a fresh cross wind, hading precipally density was the light and approaching of the leading the memory. I few worthwhite experiences in the exercises of the the whose of the shadow on the wilet. A nerv share and wall defined abudew was made. This took the glare out of the defined abusine was made. This took the glare out of the Two londings were unde directly seward the R.B.T. light

to strain off the prices eyes and left the rate well righted. Landrigm with the light autern are, however, to be recon-Lindbergh Well Represented Here The case appropriate is consisting with the retain of Contain Charles Landbouck have been placed to the heads of Heavy Brane and Dick Status, public relation connect

The appropriate and made by Greaty A. White, charathough after a conference with B. Pravilles Mahaner, name Coptum Lindbergh.

Henry Brane and Birk Hivthe baselied all press arrange Revel Air Force To Hold Display

The could bear his Torre display will take when an Samuelay, July 2, at Bredon Auchouse, England. The prementant most of the transfer of the Rayel Are Turne, has portion part or the treatment of the Hayet All Parts, in this of sealer residence. Now furthers and being introduced the Beetsh Ale Mediter Incl. year, acronoments have been more in dispose its accommodation and target radiation. In solublest to read improvements a great stood with a smiling commode of 0,000 to be the summer of construction. The proreposits of 2,000 is in the course or construction. The pro-reeds of the deceased as in the push to like al. Air Force

Luft Hansa Station Keeps Air Traffic Record an erfect to consumer what cases of people, seconding to metal by the fallowing procedure. Engagers, Arcticely, Builders & Arthurs, St. Thropour, Chambria & Describe & State Officials, 250; Japoint, Lawren, etc. 30; Arbete R Actors, 25%, Anthon Publisher & Issues etc. 30; Artists & Actors, 25%, Anthon Publisher & Issues etc. 5%; Row love, Brak Directors, 15%; Country Gentry, 15%; Tude.

Elias Company Builds New Commercial Plane Approved by the Department of Commerce and

types of conserval alreaded and a small sir-coaled 45 kg. One of the new nicelance was sold to Manue & Michael of

citainsing crowling of the passeager cockpit. The whole

affaction in hisped for access to the bagging propertieses wide of the pilitie sent in a unexperience of about 1 cobin fort.

Processed with a 400 km. Liberty 12-4 Engine carnelly having a hissed ower, for storage of the table our shown by large collused wardshalds, and the contra-

> Controls The print's real is adjustable vertically and the yadder has The pixes has a sequence versus y an an expense of a sequence of the sequence of the

The CYRI siriol rection is employed. This section, which mornic posses, noticely the 30-1 mad place, the similarity to which is midweakle from the whotevership. The new food shirld upward curvature near the traffing edge. While on

reliable greatly find, and a 75 gal teak under the passwares



Front story of the new Ellis Chicardoly," because of the SW II. of excess with a environ more of 600 miles. Were a superchal padicol field line and original mange 2000 B. of pay load may be correct. Roong especially adapted to flights of greater than average different at high pervise the imprincipal stability and relicing the observer in the wine structure. This is probably the first arrelate to The wines, according of a center section and few center

Fusier strengths under the trans. The leading were and deader

encourages are confertably souted to large vacuus cachulde The Liberty spring terms a Cartino-Bead tree in damed having deep sublines comparable with the best entenobale serving deep numbers compared was one over conscious presiden. The controlle have a removable limite, the Austin numbers, and pervision is made for husting both suckying, equipe covers is represent to the sugar, and the extreme coupling incorporating a cover which may he lacked when register of the bound tree is becated under the forward and mak or everyor is correct. Non-site malitation 12 in white of the source, and it really provided in an above in the marked boundary of the well, being 12 in, wide and time no compt the first system, are removable as a used from the functions by mustifur fiver holis. The series alone out he All of the tilet's next and applier at the freet most flow

the tale order notice strate, they protecting it from an Landay Gost The leading shows, of streamline steel taking, is of the divided type baying a vide trend, and employs also ware market their absorbers of a way forces. In this short also skid, also of steel taking, has a similar shock absorber. When two droughted the much towns guilfice of the landg year, and the complete lieb of resonne in teaching.

Board To Examine Airship Designs Secretary of the Navy Carin D. William consisted :

board to examine the desires for a new road deathly, of approximately 5,000,000 ca. ft. capacity, which one being submitted to the Navy on a computitive basis. The board of

emapsood of the Ectoring officers; Bear Advisord William A. Modell, shief of the Burner of Accounties Conde. 8 M Kroon, Noterial Dividen-Accounties, Li. Conde. E. G. Pempor, Burner of Acco-mation. Li. Conde. C. H. Harel, Terrin, of Accounties.



Changes May Be Neccessry

Figure 71 was agreezed. A study of the system will about

rable, to the conventions office or other convenient negative scotted at which point bys 30 security, 600 volt students switches should be used for occatedfoor the two fleedight-

Lighting Circuit Underground

De WILLIAM T. MARDINGS such from all confirment by Back, with Date or no the surfrome should be located, upon a print of this outline the resolution of each discussed. Once a decision is made an electric lines, each calls about he heated. Tone which man ant he removed should also be shown. The magnitude length of all knokkings should also be described approximately. If



FIXER PREVIOUS discussers of the proceed subject of

ME PREVIOUS encurrent of the problem mayon to night firing aggreeath for the applicate have considered

power server. It was a case, never any sevent construction in started by the Pawer Company a session point of scatted Physidisks Control Bustockly To minut and the a results point may not be founded or presented as it is usually desirable to have floodlight control, the load center of the system to be Larted. This is a roomoffshed when the leads excepted by the different feeders loods, are equal. For handing field floodingths, if bonn-hary your note are used, when the controls tands on the two those are exped. Boundary and obstacle lights should be

are is one tech equals 200 ft. The map abould show the

boundary of the landary area, and subment advacent territory

means of an electron distribution system is equally as the portiest of not mays on. As a general rule, the operpress well not not so mays in the distribution system on which it. It is assumed that electrical electrical energy, taggetted for Earling the sinframe. For costain element of sinframes

the class to heate the terreference and excited to come

and. This empty is the those wire, 200,315 well arrangement from other optide wire to the mid-tay, or mid-the ware. Map of Airdroppe and Surrouga States We that the late women or make a room of the claborate to scale. For the malority of sindposes a convenient scale to

"Record States, Melick Pain, Series, 6th in show of the

SENSOT NUMBER

a considery sation of 190,115 volta and a expensive to bondly solution simula should be moreled which are not on Another transferred with a property without 450,020 voland a capacity of at least 7.5 EVA should be morehad for and a exposery of at least 10 KVA amount by supplied for the heading field facilitatis asserting that only one raw of four foodinghts, each using a 2500 with large, is to be supersided at a given time. The true transformers was he

The the shore ampterment a small religible of should be Far the above assungement a small couplingered month to suppose our part or empros, 200 bits, a past obtain surples, back connected, mounted thereon and the connections made an above. The landing field foodlight elevations

The Schneider Trophy

Is Air Rocing Internationally Worth While And H So What Are We Going To Do About It? By Lant. Couds F. W. WEAD, USIN

W.T. CANNOT be said that compliant at low work we were used the 1805 and 1806 fisher forces were words serviced juried to admire Sulp's victory in the 1936 Schoeder neversation confirmed our defeat and schroquest failure the garren or Assessments sales for these with word to Hady, so that this retherd set the Sury cor As a few in-it has been kinded that Naval gifots are not fit to represent the maion in the Schousfer Trugby Coulest-a fair, fat, great constitutes). It has also her stated that III might be said that we have

contennal Edicatorse was the Trophy at Cower in 1879,



C G. Over interested in The According that it had been to aladed that the United States introduced North competition been ton as parely nevel as our even, and two of their

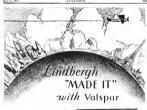
1995 www.fffice to Bultimore was healed for the Ale Minister.

In England, moreover, a peculiar tributers exists as re-mark the approfit industry. Each accords manufactures onplays or has strange on an expect and well-known adoc. points here—and who enters various competitions with an averdone house by his company. In some customers entries arricance burn by his company. It same incomes contract are reads by records industrials as a monthly responsible replacement from the segrees in the King's Use sense, and are prevaled among the mentafacturers of the airplane, en-In 1923, Hubert Scott-Prine, then the power helded the Supermarine Aviation Works, Ltd., budd the fee Line 2d.

and with my hate whatevery form the Years' Arm Click of and plenty of people interested in avision, but they do not trees to be the same people.

recoverably in popularity with no loss to take from a to-bu-wheat standinglet. As if is, if our antiles one to now wears ended than many other Government appropriations. In the Rehealder Trends Contact, marrows, as because his solds. In addition, cleary association with foreign authorabut to obtained to buy an aristian in concerned, through an-The sopphile over relection of a tried who and the submuch comment. This couch did not mere a thing, as the

more smild navor have been clover than third at the rane non of what. A mild corned out and and and his above



APTAIN LINDBERGHY (ports making - Reder from New York to Ports, which can resed the imprination of the world, was made in a Valiguezed plane. Mr. Mahoney, President of the Boxo Air Lines Inc., writes-*In the conservation of the Trape-Artessic ship for Capacia Lindbargh, we used North

Valuer on all of the month men and seed sales shoughtest. We find it to be far superior to any order Inoques which we "Walnut was used on all instreal wood. recommendation and all other wood parts of this

New York to Paris thip,"



The is the collegeam rearlest from Mr. Politips who imposted Captain Employees

NITRO-VALSPAR

The Valentine Lacquer Finish

VALENTINE & COMPANY

June 6, 1927



Faterson, F.J. Boistilla Esgusto Company,

CAPTARY LENGERROW-S REAR MOROPLANE COILD HEYER MAYE MEASURED PARIS TO HER MATORY WITHLESS MINISTER CALCOL. THEN PRESENTED MADERTO I PLAYING A PROMINENT PART IN MAKING HISPORY.

> Talabi Association) Occu-7106 P.M.

The Wright Whirlwind Engine,

the power plant of the Ryan monoplane with which Captain Charles A. Lindbergh made

his great flight, is equipped with two Model AG-9D

SCINTILLA

Aircraft Magnetos

SCINTILLA MAGNETO COMPANY, INC. SIDNEY NEW YORK Contractors to the U. S. Army and Navy.

man such year however, it would arrange that we have no wellful. As one racing roled with nemodrable experience exposured it. "There seem to be two schools of thought on regarded to the fact any dauled on he tenant to entry ready for the 1927 rate. It may probably be too late to do no effectively. If 1927 in lost, left and ready for 1928 1937. States in 1923, stal, despite more previous expedituous private and official, this was the first subjects assembly race, they will never propert the numeron of same one penns Allerted offshore to once present competitive enemy, one

Pressure Distribition

Report No. 197, covering "Presence Distribution over a Wing and Yed Mits of a VY-7 and a 72 Acres on Plants," compiled by J. W. Creeday, Jr., for the Netword The word streeted in agent in coders on concernance of the ward thick word streeted. In rach case the pressure disthe lands selectly opporting to field, but could be chalded in which wing and full surface like reach their respective construent leads to different memory-sent (c) that he managers

in manners at higher speeds the charved acceleration, were smaller than those theoretically people. Expect No. 257 may be obtained upon request from the Air Forces on Biplane and Triplene Models countied by Man M. Manh. for the National Address Comconsolied for Mon N. Mann, for the Nellocal partnery Com-mittee for Association. The tests, exclusive in the variable

such the same wing seefare. The magnetion of the gap has an one magnet in hymerosanand the beats. Contain which budy with a second wine nothing The sends pore avidence that the present Army and Navy

verification for the relative lefts of Medican are modnow he remembed to take over all Afficient case This would may be obtained more recent from the Na-Advisory Committee for Assessed 1992 450 541

One of the greatest differables of mong in that, almost without exception, the planes for any particular content are

and conside just of money B is brooky become of the be firlied and the plane made thoroughly ready for the year. On the other hand, andress and similar preference firing may extrade chalcate the place from the competition, and By account that is maded to halor morbed to make when Bultimore is 160% and the practitionness of the University

sen-worthance and water fichiases tests may be held recontext is sured, and any other procedure would be of

Originally Included Cosh Propo-The Schneider Treats preparable inducted a such miss of term, consisted of the determination of the lift, from such corry, concessed of the determination of the 185, drag, and received for each understand starfed in each salish smalls

The Joint Conference of the Aircraft Industry

And the National Advisory Committee For Aeronautics

VET ANOTHER complete at the compensive spirit which the impartame of its organization each in the Advisory

the facilities and methods conduced at the Lantier To sfawalwie, by farmed and informed discussions.

the impartance of an argumentum uses as the Advancey Committee Impage in the closest tooch with the Assault of seconsation) engineering knowledge At the conductor of the address by Ductor Ames, th

Work Divided Into Three Sections





BEGINNING to manufacture in a small way in 1916, the Boeing Airplane Company today employs 650 people - producing a large share

of naval, military and other aircraft. We founded this business on a basis of the permanence of the industry and the nosabilities of its areat future. That this keen vision is appreciated is borne out

by the fact that in the first four months of 1927 the Boring Airplane Company has produced a thousand various type planes.

Boeing Airplane Co. Seattle, Washington

Santa Maria II Leaves Nese York and Visits American and Canadian Cities Before Taking of from Trenosey on Uncompleted Flight to the Asoros

District Marian II, the meon supplies in White Comin Francisco de Princio is continuing his Franthe day beton. Commander to Pinedo was taken out to the newplane in a pollen lunnels at \$1.30 p.m. Ha place was During part of the flight between New York and Pittlea threater and furbrainer storm. When he marked Thissmembles on the shore of the Delaware Hiver and string the Station flow a popular polarine. He arrived in Philathe Stalina flow a rousing velocity. He arrived in Philo-delphia at 4:32 year. The plane made a low owner over the sylution field. A launch on based which were Bear Admiral. of propriesed Philadelphia orlineas, not out to most Commun.

At 7 25 a.m. May 12. Commander de Pinado left Pinlahours. Tearther with Captain del Practs and Vikio Beachette. who are making the flight with him, Commander de Penede was greeted by city officials and local members of the flows in their honor and a hangest was traded them during the evenius by the Ross of Hole. On May 14, Commenday do Piredo few on the flooded On May 14, Commander de Pirede flew up the Poodec veller of th Minguigne Eiter sentent advence winds and

COME NAMES AND A STALL III the Second complete or which the 15. He made he could now be Lean then been behas percented however, true learning Cheengo until May If, because of high northwest words. There term, he attorned to large the water, but his offerts were necessaria. may. At Jackson Park he stopped to impect the deplacate From Ulicopo to Montreel and Iron Montreel to Ship. person. N h., by way of Homeway, were the past classes of the Sight. Consumplies to Disada seculari Montanti as a sitt p.r., having flows the 800 miles in approximately 110 His plane, the Saxia Maria II, had been expected surface and throughout the afternoon great through provided harber front. He was valuoused officially by Security W. S. heaven Myramora takend at 11 20 a.m. May 28.

belowing Shappengers Indeed to H 20 n.m., May 39, Com-Lawrence, but the weather proved fairly good along the next court of Newfoundard to St Mary's Say. From this point to Trepnay, where he arrived at 5 p.m., he again on-constant far. Or Manday, May 23, the Halton filer beauti



are to akin to make the fight field. He alighted on the covernear a Portugue sading Tonal, which seems his place As People assessed that Develler condition, would recover

respection of the flark. On May 25 the Stales steamer The Time Lag of Aircraft Thermometers

preferent of Commonwe to deletings the tank ing of thermomten and to measure an improvement from selecti. It is a well-known fact that if a themometer is taken subfaces from a heated room on a sold day no appreciable time will reason of he important to determine the temporature of the northest that the time har to the environments used should be difference between the oriental temperature and that of a constant temperature bath into which it has been plunged. A high pay be of my, water, ot, ste. The total of the Air temperatures descesse with altitude and as accepting that very rapidly the monetag contrasents do but sendly denied the true chance in the tongerators of the deferred able to the property of the shapes owner. Parking the firm lay of various types of thermometers in therefore of value

to both the claims and the saluthbound there between the Managements were unde builde Bayens of Standards of the time for of a representation group of fastigments of the Come those available in the Stavent's behavelong. are stroom to which the temperature element is executed. The values reported have very for an expenses of the temperature of 27 may be was maintained. The time log was found to thermometer of the merenry-m-glass type, very distlar to bulb of the instrument in weathered by an air stream of the might. For exposures in air at the recoil fiches speech the reference are remembly specially of three formal for 17 minutes.

Canadian-American Air Relations

States and County with securif to the entry of Bulled States This amangement has been in effect since 1902 and pro-vides in present that when an American markets or pilot white to come the International Recorders and to in Comdo, notification should be next in advance to the Secretary an incommention should be one; in advance to the necessary of the Ale Board, Ottom, riving the date of the necessari. maniferations: the tree of marking to be said: the rests and emillications: the type of machine to be said; the route and Assertion of the recognil fight; and the veryons for which

Acres Airtite Ignition Cable Arms Arrite kigh broom gration cable, manuscramed by

the Jame Wire Co., New Harry, Corn., was desired to and frost water, came, marker and oil. The method manfrom from districting. Between Council total harm been con-ducted on this cubic in both sir and self catagoried afe at

This cable has also have subjected to the Netoctale test The rather invalidate on the Arms Arrive High Tension Intelline Colds contains 20%. Page rabber, and is so do



A. Cormen and an disting cable the enter part of the smal and the when this past has those to medicary cont. cable and the large part of cost changing that August safes has not been affected by the sar arrest as to make this colds 7 cultivators outlike dispute bused corner wire. The colds conferms to the E.A.E. The Acres Aights colds, made to restless to the U. Aren Recorderation No. 94-29063 M, requires of \$6 already

Confer on Lareda Air Mail W. Irver Claves, Second Assistant Parlmenter General W. Eveny Cower, Second American Perimonal consensuation of the Company of the Com

Large is an the Merican harder and it us interestions her. Apother possible respic committeed was the proposal for extending air and lines to the nuctbern border of the United Texas interests the mosability of a record less from the Chi-





PROVEN in Service On the San Diego-New York-Paris Flight

On the San Diego-New York-Paris Flight

by Capt Charles Lindbergh

AGAIN the endurance and dependability of Norma-Hoffmann Precision Bearings have been demonstrated in this epoch-making trans-Atlantic flight - as they were in the record-breaking 51-hour non-stop flight of the Bellanca plane.

NORMA-HOFTMANN BEARINGS CORP'N. STRMFORD, CONN., U. S. A.

- Hoffmann

RVLLER BEARINGS

Joint Conference of the Aircraft Industry and

the N. A. C. A. Contract from some Time within an elected marmetic field. According to the open i of

Engineers Experimenting experimental work which is being carried out on heavy all that few but an organization such as the NACA, could work in which these variables are brought two play: At this ties, those present had an copertantly of witcoming for a Direct type of engine. A photograph published have the rainsted warny. The oil is inducted at 8000 in per on in as, fr. The interval between each expenses was made by a charged condenser. The expenses was at the about at the middle it of a record and the tame between such exposure the draw on which the obstorwable the was wrouged was

Accodemance West Innecess

Panner on he necessaries track, visting your much bedescentistions in Such of section served including the

go regard was noncomes. Frontly, on a citrox to the demonstration, the vision was secure closed errest type, had a complete Sperry Normager After lauch, the coefference went trio number areas and cherges cortain details of the NACA, work in its polytics. these who spoks were. Frenk II. Bussell, representing the

Aventon Corp., Dr. Karl Acceptin, Geofgen: Reppelin Conquery, Captoin Subert W. A. Birmor, Pitaum Actalion Inc., Relph Upon, Azerwit Development Corp.: Dr. Lowes Event of the Street of Stradeole and Marotco Wilson N. A. C. A. Established in 1915

The Mathemal Advisory Committee for Assessation was the Nithman Advisory Committee for Asymmetric was established in 1905. Up to that time the designing of sur-

and relate. Thus to shift on the years of yours designed, and but a manual for determining the effect on full con eleveral It was to mosade these conditions by precisions and It was to properly these conditions by experiency and Election the marrials study of the problems of flight that the complies some into reference. It consists of teather marshare appointed by the Pennison. The law previous that

its promonal theil ermint of two members from the War Congressed, from the Office in Chance of Military Aviation. Proportion and the U. S. Harrier of Standards, and fire additional





Guided Captain Lindbergh to Paris



PIRITION NY CPIONELE INSTRUMENT CO 754 LEARNING AVE DILLYLL

ALL INSTRUMENTS PURCHASED PROFESTLY DANGED DITTER FLIGHT 1 WAS LESS

THEY KIVE MALES OFF DOUBLE ON THIS H COMMT DUE LARRELY TO EARTH INDUSTRA



PIONEER INSTRUMENT COMPANY MAIN OFFICE AND EACTORY BROOKLYN NEWYORK USA

Tref. Ouris P. North

L. C. Million J. W. Million J. W. Million Straight Even, Str. U.S.N.

Earth H. C. Enhanders, F.S.W. Coll.

W Exceptor deel, Jee E. Sheenaker, U.S.N. E. See St. death & Sanker L. M. Yelseingien

the N. A. C. A. (Continued from state 1200) numbers recognised by the Propolant all surviver without C.J. Stefantin eprenation.
The first stars taken were the resulting of a research agranation, the sevention and development of recently laborators, on the events and in first. In a reserve

tion of the committee, the quantizen that game impredictely presented through session channels. A problem may be presented through sessions channels. A problem may be about a other by the committee, as a hole, or one of the offseed either by the committee, as a temp, or one or so manders it may be unspecial by an outsile solventeel or The main completies equitate of three unb-connection, and to the letter are referred the problems which we researched to the main committee. The question may be baseled at to the main committee. The question may be handled at Language Field, the Person of Standards or may be referred

Languer warm, the nurse or resonance or may be referred to concentrate such to the Mannackments Indiffuse of Tech-Conferences Informal When your carticular question is referred to the Laurence Publ reason beforehor, a conference of the southern to Func resource liberatory, a concretent or the augment in charge is left with the heads of the division to what the salged relates. The present scope of this topes of records in discussed, a somparance made with research facilities at hand and new matrements that may be measurary amendered. There conferences are subjectly informal. At their constitution, a tree spherical in made and the estimated and of the ina time market in more and the ordenated cost of the inentigotion given. Short conferences are held every wark, at

Visc deflowing in a list of moreous attending the conference. wher then those stationed at Longier Field-

Court A Asse Ford Arrests or S. E. Servado, U.S.H. Sender P. C.A.; Checkerson of Sender P. C.A.; Checkerson of Senderson as Edited for Albertals, Service Senare of Bandels, Bedge Aletters Chertals Sender Senare of Senare Senare Frank & Wilson Aprovals On Laurina Magnamia Corp. Sende Ongolina Senare Sen Sen Sen Sende Ongolina Senare Sen Sen Senare Sende Ongolina Senare Sen Sen Senare Sende Ongolina Senare Senare Sende Senare Se

Sundal Degrand the Francisco der the medica of Accountable Manufagus Compeny of America. Manufagus of Association, News B. T Daries David TAX national Company of America N. Div. Jr. N. L. Diplon M. Velphill et S. Flecter Abplets My Deep.

A Barry Tapl.
Science of Mandage
Charles Word Nall, Jean
Charles Word Nall, Jean
Charles of Agreemently, Fary Boys. front F. L. Grebot Ev. R. W. Gibell Suite Vict. [Maj.] Sec. [Acc.] Florida, U.S.R. Species Hard J. H. St.-F. Sherlann Company of America Toronto Birtola Air Corps, McCords Parks America and Hoto Co

Additions To the Caterpillar Club sections. A general report of work on head in given to those meetings, enabling each division to been in beach with On April 27 Lines, Street, W. Treele, Jr., Air Corne, became eligible for membership to the Unterpffier Club Chairman, E.A.C.A.

decirons The and Fabbus Company.
States of Assessments Sary Days.
States Auditor Contails
Contain Auditor to Mico Company.
Leading Acceptant Suffered Contains. supplied warm from Airy Mad wheelence conclude younge from doubled strybuses. Land. Tools, was continue about to a Vanski plane shoul The Englanding Company,

1 and feet above the northern Builts of Champage, III., when 1,000 feet above the carthern limits of Champangs, and the caucht fire, prevamably from a burnied guardien from Lacut. Towls impred over the side of the pites and pulled the rip cord of his chate, which promptly opened. His best out with his hands the fire which he formed about his clusters. He handed suffice, and is now rescention from the syntariance from approximately 4,000 ft, afthede, on the morning of And the when the similars he was Water testing before

Electronyl Toris was gendanted from West Point in the Subset, Willy Publ. Tuy, to Santonber, 1934. He remorted at Chemits Field in October of that year and extered the department to it now mentions instruction.

Lieux Siephen A McClellen, a Marine Corpe reserve
pilat, residing in Weshington, D. C. made a parachate jumpofficials of the Norv Department at the Novel Air Station, Anameric, D. C., deintegrated during a five Lient Me Chilles had the presence of soled to true frees bis disabled where and said the six and of Ma chots. He braided unbook the Potenser Mirer over Helen Point. He mefestered in the Principle rapper court Philips Point the includeded.

At amount them are fortunes mowhen of the Caterpiller Clab with a total of forty-sense life-poster busin-

STATE OF SERVICES, AND DRIVEN, MINDOWS.

HARA, OME IS R. Bureau of Assessment, Navy Dept

orly of Michigan of Laurenceri Despuny. Products Laboratory. Int. Advisory Committee Ass.

Reymond D. Harsts, lately of Scattle, Weeh, in to take charge of the ground courses for the Entry-Raddle Phylog School at the Locken Airport, Circinatel, D. Potent of Childrenia. Letter he was expected as a frying milet and imaginaries to the frying school, from which he unit Prict. Stace pecercusy his commitmen in 1992, Land Here's has followed commercial arintee, stadylar acceptant tion! engineering at the Correctly of Washington. Lives

Raymond D. Harris Joins Embry-Riddle

Days 6, 3927

AVIATION

WORLD'S RECORD

The fourth

made by the "Wasp" On May the Lavrenner C. C. Changen, In, USN, with a "Wasp" manue in the Navy "Apache" sea prane attained in altinuce of

\$3,415 feet, the highest point ever reached by a sea plane of any type. This marks the fourth World's Record mode by the "Wasn" in as many weeks This new record is additional proof that the characteristics of the

"Watp" entant are unequalled for high altitude performance.



Dependable Engines

Land C C Chembers & USN

T N Joseph

fame 6, 1927

The American Eagle Commercial Plane Outstanding Design that Involves Several Individual

and Distinct Features Which Reduce Maintenance tou with accounts strength. The executionally have wise commercial sirplans, recognishmed by the American



offty, correspond and confurt. It has a military type seat. should be the control of all times. Buth cockycks are uphalakered throughout with monad. The four provides more for four excess size suit. The place may be empound with other a 100 by Huggers. Score are 200 h. o. Would Whistorial scores. The completely coming engine prevents the valve action from being expensed rooms. The condition assembly to constructed of beauty course wangs. The covering assembly is constructed of heavy gauges aluminum and is not present nor humanized, thereby enabling new hardader, concerned with streamline shallow, controlled from the other's cockest, and so designed that, should the sentral

feetures which greatly reduce maintenance. The denset steel holts which are easily accomple. The director wires are inthe rear, without citaking over the wires. This also from: Charge recovered constructly.

The spill type undercarriage has distinct advantages when taking off in kink owner wouch counted on self fields. The taking off in high great, rough ground or self hands. The The Austron france is of complete stud tabe. The faleto frame that defeats tolding and backfour over under suggest commendation. The copies would in configurated of heavy The tail group assembly is also convirueled estupily a





surplied by the currefugurer are as follows: in 24 melliet

TA ----

Toll arrow of the Asserton Engl-The group of the American Right, ample control lightly at stall our money as well as at maximum speed. The belanced radder in very sensitive at an low as The laws surface of the stock belanced allower makes the large sarrace of the range taxassed sarraca makes then very efficient end eliminates cambersome mechanism. The wines are of Successed countraction, combining extreme light-

London-Canada Flight Planned Cont. W. D. Common World assisted within the good from the place will correct two vilutes a maximum and most resonance who will pay his face for the trans-believe wheth



CRUCIBLE STEEL COMPANY OF AMEDICA

17 East 42nd Screet, New York, N. Y.

EAST M	Sharper Santa	Hawlard technological Moneyana New Haran	Philadelphia Persyland Persyland See Francisco

What is said to be too line deaded navoy man of the White is said to be the true delicate; so very map of the Eurical States, respectation is total colleges at about 20,000. known as the St. Joseph system, has been convoluted by Carl years in wasking out the detrole.

U. S. Airway Man Completed

air trip to Besten, Oble, three years ago, in which the lock tral by Mr. Work. Mr. Welfer and Charles H. Warner, at and manager of the St. Yough offer of the Stanford Oct. and manager of the 26. Joseph office of the Sticolard Od Company of Indiana. Bines than Mr. Wolfey has been warkout on the details and the consisted man is now today

On a popul trip to Washington the plans were presented to the War Department, the Fast Office Department and the Department of Commerce by Mr. Wolfer, and they were an-Nine truck lines are precified in the man. These outer

the field, all-rised hanger and other open must be \$125,000.00. from at bread 2,000 ft. in the air and with an arrow on the before are ore to eight first high and are so pleased as to be year non by the Standard Ca) Company of Indican in the ten states under the parindiction of that company. Most of the warkings are being placed on buildings in deflored tower county by the company. The markings by the Letters company are in the ten states of Missessy, flows, Ultrans company are in the tro states of Miscour, flows, Illianos, Machigag, Hunsrute, Informe, North Dekste, South Behate, Winness and Karons. The coursew is become all the re-After the Standard Oct Consumer of Indiana around to the markings. Mr. Welfler beans a correspondence with other

were ment in eveleturer the oben and in soften it to the Mr. Walfar annaures now that the saline sourier is con-This is the first may of the kind over developed in the World firms. The Standard Old of Tailings which had the morrough, has about 1,500 pitter and forms on its motors An assumption overer of the district in least in the paragraph office. A executionness is walled to reach representation of the suspeny setting forth the sir lander con Tions in each station. The information incipies the following: the size of

The reserve are negatived as substilly. When all the in-

formation is correlat the National Assessable Assessation. to which the information will be available, will have a mod-

Now and transd Liberty engines will be sald for inthe same when a branching charge of the SO fact Little realisant that he has a pieze, either built or building, in which to restell it, and that the plane will be used in this country. Propert will be sold at the above robus for democifie country. Engines will be sold at the above peter for denouts one pairs, and the Opportunist tenevre the viets, at the fire become a property that the engineer sold product this condition These courses are so well and foreguldy known in aviation cardes as to require an introduction or description remarks. They were named officed during the years 1917 and 1918. and, while every ordinary protection has been taken to year sufficient. They are exempleds with the noned his of tools. The forms of the rate are that treater present of the amount of the searchese order, in the flows of each or cortified. check remarks to the Winners Officer U.S. Amer. more operations only of erfore the belows of the purchase year much be undied and ablantus businessions forestead on the envisor

ides of the stellar of evidence developed throughout the even

He Wolfer corrects that in places where no building in

in concrete lattern, mirated white, or they good be wante of

The suggestion for the marker in the leading beld in a carde of camerate, 100 ft. in distinctor and 4 ft. wale, with a

made firsh with the eround. The orang is good for from ever

As a lifety of the markets for the mideans of the wifes

the routes for minht fiving. These are the matter used by the

servers nor rapht first on the time to repeatly approaching,

Sale of New Liberty Engines

The Air Curps has released for sale, for one emissionly

the same property within the improved of the United

avered within thirty days from date of evert. For further Greenshore, N. C., Officially Opens Airport The effect making of the special at Country N. C. which will serve Greenbern, Wireton-Salem and High Point, the tricer's industrial eitin of the state was held an Bater verses contests and events midaled in the coveragion. Pit-cairs: Avietice, Inc., of Philadelphia, hald a surround for the air real service between New York and Afferta and alreno me and service access over 1 over 124 Annual and also Air wall service will not book for second-woodhadoob.com. Air gold service will not begin for months would be the feet. In the feet,

on the line below Westerstow to be offered in correction.

heavy initial looking of the plane, the bad weather for some

Inne 6 1927

storm, the anarage speed of at least 180 map h, and the actual reported hy smound personnel. Serves bears were an expression in 1921. Due to lack of funds, the ner ratios ware was greatly curtailed in 1922 and 1920, but no 1804 the \$55,000 The oil communication in circus in the Peris Strengther on \$1.8 pd. See the tunne-Atlantic trip. The gives a communication per bour of 304 pal or 283. Factoring the harmpower so they might be, regular flights were not jurified from as per tour ex 300 pa. or 200. Fighting the namepower at 1500 cm m or 170 has the cree/fo communities would be ecception standpoint by the derive of contestion than afforded 4010 D. On Or. The extenge covered on fact and oil constitutes another interoding achilloht. On the transcentinestal trip, with the eveney they represent 1700 the second column was \$4 miles wer realize of form, and \$67 miles per realize of od. On the New York-Parts trop, with the cp.m. about 1600

Fuel and Oil Consumption Important Factor

On Long Distance Flights

ner culture of ail, on the basis of 3,000 miles traveled, which The forces obtained from Lindbergt's builtiest fight one named with those obtained from the world's record deretion Sucht of Chamberly and Acods in the Wright Bellance plane with everify the more type of engine exhibit an informating 4.83 and of all, we get an accompa of \$7 miles per gallen of renders and 500 miles per guides of all as agreed Lindbarrelly fit makes pair region of exceller and 165 makes per taught for more per gelles of goodler end life stake per gelles of all. On account of the constant decrease in six se-

Airplanes Aid Ferest Fire Control To the coming figuracy containing against fee, present Acres

streless will be not into service to help the forest offense arranged the National Powers of Colleges and the Position Morthwest, Suid recently it was thought the War Departpoint would be machin to repoly planes during the content he available, and when are now under very for the seasons ly potrul work.

Piece bases at Mather Field, near Stammento, Cal., at Glandale, near Los Angules, at Eugene, Occ., and at Scattle and Spokane, Wesh, the please, painted by Army Air Curys marrie effects, temporarily in the modey of the Funer Service, and accommended by forest officers action as obserorrest, and management by three development observes on vers, was made speake tights that business whenever an

so that the visibality at ground include in granity reduced. a worder of fees in widely squareted parts of the forest. Incondigues Decreased

An intensities becoming of normal radical work on the less for years has been the moral affect on increditaries, careken that Chatte men made it was natural that a source authoraly of insufficient stormed short as more as the six rated Darrow the first four years of screkes consecutive on the Extract the first tour years at expense cooperation on the Kathanal Barrets, the plan was to have mentar furthe ever the faceted areas in 1800 even Army plouds best of a the nutional forests of California. Regular scholales was

to compared with that affected for remotive with behind have planes at intervals of a few handred gales held ready to runky such flights as would add materially to the safety Drep 150 Messages The air nated comm national founds in the Rivin of California, Orogno, Washington, neethern klake, and western Montana. Two planes, flying out from Spokana ry 1925 ground sockeuts, and designed \$50 messages. Office because ever 300 and 300 mi, of murbert mornishs country under ad-

minutained from June 2 to Oct. 31, and by means of these

sighted before discovery by exceed lookings. In 1990, there

signified better chicarrety by ground tonours. In 1890, therey-

to view of operator executions it was found that, desirable

of fast in the six by subsect of but six over feet. This was of test in the air by columns of het air over fire. This was

Proposed Air Mail Service

Postpanics General New has assessed that the Departvilling grapocals for the free-queletion of soil by siresoft between Ballon, Ware, Austra and San Autoras, Tor., a dua-The minimum of such a make would affect the nations The mankinshment of such a reads would afford the pulsons at San Autonio, Austra and Waso and requesting position amelicale everyth service with Chicago, and would put malfing at Treas points

The propert modern rates of ten costs nor half cause will affect a very praceable means of communication between affect a very practicable ments of communi-Consideration is also below given by the Post Office Departs. polyte in the United States to Market, with the possibility of Mercine restreasor the service below the educate of that

Il was farther ornament by the Postmanter theoret that accepteration is being stress for concents on Mds for the transportation of real by sinerall on a reute between Bullon,

Hausen and Galeraten. Yes, a distance of assessmin telewith the externe air mail people between Daller and afternoon that the widdle of the recent Swarer when the Bellen.

P is continuously to that this youth will connect at Define

PLANE IN THE WORLD



The first Place to fiv from New stop fight Distance 5610 wiles stop flight Distance 5010 miles

THE MOST FAMOUS

"HANCE played no part in Captum Charles A. Landbergh's first contact with the Roses on after thorough study and investigation, in the

In approaching the obliga assisting prescription on the Panfic Coast, Captain Lindbergh was in-

monophore in competition and in daily and and IDITE common of the Paso monet of sporet store surfacios carcastera carca Monch 1935 of



RYAN MS MONUFLANE (Then Plan) Web 150

Ryun M-1 monoplanes are used exclusively on Contract Air Mail Ecopy No. 6, approprial by Pacific Ast Transport, Inc., between Search, West, and Les Agrades, Colif., 1099 rules, the lowest stocks

On Contract Air Mull Boats No. 12, energted Chryster Wry, vo. Dirayr, Ryan M-1 meno-

Although feet toroid in Schrosey 1926, a Brean clum or the 1926 National Mile High, Air Most at married or whenever extended the producted to their veluble plane of enviloes all-amoral performance

spen data the NYP menodists was goody to fir. Conful tests at Sun Diego, conducted exclusively Layeria tests of San Diego, conducted exchanging

TO this experienced organization headed by capable and unformatic executives and angle thought out ideas for an simplane capable of the New York-Parts monoton field with a single Renn NYP should be completed weeks entry from And eleven wanter short of the sourfield another to New York, and then the magnificent roses to Paris. Churies A Landbergh, the World's Bedressler of Assessed had done of But back of all, careful perconting, a reliable plane and a

THE New York to Page Highs and the World's gregless distance record age new lastery. Washingle atmediation of flying has resolved. In these United States, Charles A. Landbergh and his Ryan monopology "Spirit of St. Louis" have so stormshop and one-half hours instilled in the ouble an significance that years of process effect with not have accomplished. The larriers of indifference and resistance are down. More staand cleaner from his more alread overwarks. The Boar Airbres, Inc. are proposed for the

period of sepal expansion. In the three-place Rean M/2 Mercolumn and the free-place Rean

Broughon will be found phone which over a wide eases of second and affect. They clean dearen careful engineering award construction and on

Ryan blows will now presture and peak to your ar week. May we send you constrains per-



RYAN AIRLINES, Inc.

San Diego, California

Aviation in to be held at St. Round. Mr. Bone 6 to 7 for the parpers of perfecting a vertical containation for the inparpers or personny a vocating organization for the ta-mediate deviations of American stream, and the assessation treffic already established in Germany, halv, France and The conference has been embersed by Hon Way, P. Man-Courier Jr. Assistant Secretary for Assessables Tensors.

of Munous, Astronou Otto, Mr., Hos. Loris V. Stand, Man. High People for Scintilla

The important most played by florable already a breater is Capt Charles A. Lindbergt's 2010 sole flows from New

to Co., of Sidney, Y, which reeds as follows: "Copiana magnate is playing a prominent part to making blotory Two type AGED Scindills corosely magnetic were used on Captain Louisersh's Wright Whitelend costs: in the Puris On More York-Peris State. The Belleron measuring which Will Els from Amsterdam To East Indian

Van Lear Black, a resident of Bultsmoon, M.L. who is new in Holland, has announced test he will for from Acusterchartered on simpless of the lines Date Are Revelor, and No. Work has assumed that his fight would be a name of

Will Fly To Eighteen European Capitals As a demonstration of the distances which any describe The office to be visited on the fivene two are: Peris Lisbon. Prartie, Berlin, Helcherfer, Stockholm, Oslo, Gourchaven, the Eurocean arounditial acceletions are efficient with the

of an aurolana on field; how to troval with the evenient of an arpenta in tagin, the or serve was me present confort, the precention which are into against and the Sportal cicking is not necessary for air travel; dollars: appears covering to new assessment for the Maps of soules can be obsessed free at the various stations Do not be consumed if the machine on starting taxing

always starts and lands head arrest the word. After a We prepared unsuppose to place ection used in their Elight deafters is negotiated by the righted, pre-ner, and immediate relief one he obtained by either was shore the hermonial and the other side invested. This is "Air peckets" do not celet, and when "bumps" occur thay Discusses as experienced by some needs when belong

Are richteen affects from your personnels than one pickness. several of the unrunnitary remedies are completely efficacions.

(b) matches in the arreplanes. Notices whatevers should be thosen and of the wholesa

from he many of window talendown. He meaters reports

While the ole house could will be full bodds the help be the left hand and grow the operating lever grown with the rape and. If the symmer does not work, include by modific after management the value on the left aids of the belt. When

of the rable. It is destry marked as such and will store A service of the same of the same when harden the presenting about the first of the first and the first and the start of engages showing down; this is pury an industries that the provi-



WORLD'S RECORD

by the Vought "CORSAIR" The French World's Record was made to the

N May 21st, 8927, Licet. Kerleage Irvine, USN, flying around a 25 kelometer closed grape at Hawsen Record for Sandana for 1000 billowers The

from H. Herderson, U.S.N., made a new World's Alterede Record, in which Level S W Callways, U.S.N., made a new World's Speed lorses D. Barner, U.S.N., made a new World's

The "Correy" is desired around the Press Or Wickery "Ward" recess.

CHANCE VOUGHT CORPORATION LONG ISLAND CITY, NEW YORK

FORFIGN AFRONAUTICAL NEWS NOTES 4 By Sougat Amangement with the Automotive and Transportation Divisions, West

Posisht mediums on selfed for end delined themshoot Lordon and Panis and received and delivered at the name of lading are approached with full matrostops. Chapter are Larger nucleares on he arranged for but the follower: maximum some ere stockfield 2 ft. 6 up. u 2 ft. 2 up. er if 50 kg The would manisone weight in 160 fb. but a package may he charged for according to the solar state received. and after the company headles them and the condition and Some of the rates asseted one. Leader to Peris ner-

nacione of the rates quested area. Landon to Paris per shifteen A named and consulted 66 D. 16 shifteen & named Air Surpey of African Mining Region

to he need in making preferency corners. The Bhodesis wayk on the survey well be started about the end of April, and it is avanuable by those introduced in the westest that shout enocholf of the convenien will be servered in four which will be shown the court time of the consecut. Photo-

Nam Parak Alentona Fostora statistical at acceptant for the purpose of construction stables a Derear searches, switched by the Detail Description incinds the Yot Company at Belace more is Busineshoot, of Potterium, both shipherbless The new concern his lessed the ward of A was Daywoodide

Occasion of Colon Named Sensing Sessional Executed communicated all that has been postpoored cotting to the referred of the Territor flavorement to mornik electrons to obtain the recovery represent and that the present off he France Hees Plynes Assinst Invests Airclanes have been used in France for the destruction of Airplanes have been used in France toe the concernment to smooth for the first time. The pane ferrois of Alexee and Lecraise laws been attacked by the feloric praints and large A plant corrying 250 fb, of amonate of Time flow over the trees. Although the experiments were interfaced with some

June 6, 1922

Airnest at Spaille, Spain In connection with the new similars service such to be establishment of an airport at Scotle. This agreed calls recision). The Company or charge of the account mother New Italian Aircraft Corporation

A new appearable expension has been recerbly organized to Discontinuously the many of Daller, form Consenting, (Conriver renter. The corporation began business with a paid to increase their subscriptions to \$3,000,000 Brs. The beading charached ders are: The Navaguages Generals Car. di Gr. Cr. Adglio Odere, Comm. Astonio Marmenichi. the Rosso di Napali, the Rosso di Smila, the Rossa Com-merciale Stelman, the Codfin Halting, the Baron Kurimado & Credito and the Sanco & Beens. The largest block of study in both by the Maximustona Generals Defines.

The fortesphilty air service between Calry and Rephal in to be submided in Hearn (Turkey) and a further extendion will be made to Kerack; in the man fature. Mall from London making a total of fundame from from London. The first for 9 to fact and stoomer for Bores, where accounting was Chips, for transmission by the P. and O. steamer to Marmelles.

W. F. M. Anto-Substitute

Extend Service To Barre

The F. L. M. (Burn) Date) all Transport Co. of McGan(i) ben asked for 600,000 guildow salesidy for IPIT, which yeshas noted for \$00,000 guilders summer our area, rosen pro-The office of Setterfam and Amsterdam have provided very

Did You Ever-



Have a ride in an Earlemek? When you do you're come to

by it - not at it. J. A. McInaney, Sales Manager,

ALEXANDER EAGLEROCK

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or may be purchased on Tone Payment Plan SE PEATERS

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F. H. & Che, Strap-Strattle Statemen, Microsoft, 122 Columbia. Pinnels-Well Already St., 150, Sung St., Woman, Whensels F. Frankinger and W. Oversen-Borry Egganeth, Bolin, Mulin, E. C. & Yu. (Christ, Figure 1994). The Property of the Control (Section 1994). The

Color/ A powerful new factor

in the sale of commercial airplanes



a commercial airelance have been start to exemple the immediate of color to a sales factor Whereas oaker was given only nounire consideration a year are-it is new receiving the ettention its sales

pared for this new development in Aircraft Revoluid - understad recognitical purposes - is now

robe recreate

teralishin in 40 stradent salars! ers. Already Berrylaid on he sunalted in any special color desired.

Constitution of the last RERRY BROTHERS Vornishes Framels Stairs &





AIRPORTS AND AIRWAYS

The arrives is repelly coming into its own as an agree

one. An Hagierock singlese was recently substituted for an belower and resistant town to transport Dr. Homor Latherer of the Lathern Clinic Councy, Wan, to the Precivitation Hondiel Deven for energy or treatment. Dr. Leftcov, mfductor was accommond by he has been your old duarbies Mary The whole was witched by Marser D. P. Warshardt of the transfed want to the wints of Columbia belieful a value of owner. watched the development of the stage couch, purp express, mileted the development of the stage reach, purp supress, mileted and networklin. On Sunder, May 15, he experienced Mr. Care, accompanied by his one, Dr. M. N. Com of The olderly preference was heartily rethread over his

enter counting today will play the reward of the educate

Besten, Mass

Flater from Boston has reached its bundred hour a work quintiers of this year, should pass the 150 law reack by Events of greature scherool on the subnitude are the New England Air Mail Work, Jane 26-July 2, spensored by the England Air Mail Week, Jane 20-July S, spensored by the axinhum commutates of the Mannachanatta Assertent Legion. A public descentration will take place at the burdefeed on Roston Courney June 27 at room. Tweedey the Chamber of Commonwe will be heat to Mr. E. H. Hen, of the Departmost of Commerce, Assumation Branch, who will give an Boatzaid leature at 1000: Thursday the National Air Tour Distrated leature at moon. Thursday the National Ale Your sary of the first air mail facts by Calural Air Transport On the state of the Manhard states assessed at ables

warries are, who, he addition to his five planes, desireded Send a letter by air

To conserve percepture Maker Warbart A. Durrens visited Boston in his flumbly Major Highert A. Durgen visited Boston in his Burnell of the Vontal and cooks at the Charder of Commune May 23 "now nock" and spons at the Churcher of Commerce May III.

These Reston planes five down to Heatfield for the Rivila-nest Field air feasuraturion May III. Capts. C. W. Feels, R. F. Barmond, St., Lieste, Charles Clark, George Lude. Sweener and Roberts made the trip in Zeroles The Borion Airport Corporation has a new Stinger-De-

tractur colon bigians and in harding many night-even over The Air Service of New England, Inc., has been hour with hed lave been handfor the samers. B. F. Effices has been Down at Sumature pergresses on the new front field. a few vector back, pears completies. Dentices expects to counts Kinner sireless. The New or interested as his proper and may below corporate in building a large had tied as Beancham. They new have only their namal reserve gir stadion bondy the ber warting stap-basisfor wheat At Court Desces the rescource Army field has been annulated and planes from Bester have leaded there. I will be used Juring the Sunger training adequate at the Colonie! Arr Tressport, Irv., kas been speculing single-

the made rhoot divides research or are not reading passeagers.
As alredone service to Numberlet School is being element. he the Market Account Commention the early in Page A by the Boston Aircort Corporation for early is June. A group of worlder Engages residents there are to underwrite Catner, Wyo.

Cloudy following the opening entiretion of the "Powder Street Plates (the House and figure field at Canasa, Wen-On the day following, word reached the new clob house that means prominent Curper franching, leadeding seven chil-Licut. Manghue, the "down to dark" flor, in a venture Army please and Well Steams, charf pilot of the Wromany Alevery in an Alouader Englevelt managed to get into Alloway: In an Alterneter Engineers managed to get this her country boated the resty in a short time. All averlable The pilots of both Englayeek and Army planes were helted

The pilots of both Enginees and Army paines were reconthe arking. to W & Salar Sc.

may Budget, bother of the air unit record of 5 hr. 40 mis Each Endell, beider of the any name record of a fer of minrer a rewed tep trum re. red., Minn. to Croscop, III, and crimm, mach seedler flight on May III. This time Redell took off in the plans Matrimore, with Max Holes Lobe Langualities, of this Park, IE. Wedneday, May II when Rob looded at the Wolf Chamberlain field Res Endell was a Assessed the first to openestable the possels were Cel #. W Brittle vice-president and greated manager of the Northwest garten von-prendert and greant manager of the Nathwest Airmore mail Eur. Dave Schools. Stored Sichner, whole and Andrew Hafferd, shief machanic After the usual shower of rice and ald show, the couple were excepted to the hongur for landscore.

Air Transportation is Here _and Austin is Ready

A IR Transportation is hore! Several new pasmerch, and others to be started incombately, combine with Captain Lindbook's raccess to make the sir roots an accepted made of travel And the one in Air Transportation feels Acada made, with accountal appearance to the field built because, sireout facilities, and plants for the manufacture of pleases, drighbia and parts During this natural. Aprilia has processfully moved

Busine Airplese Company, Cortes Airplese and Motor Corporation; Glean L. Martin Corp. and Motor Corporation; Glean L. Martin Com-Dostor, Wright Airplant Company, Agreed Start Metal Airston Co., and The U. S. Noor. Antie has designed and is now constructing a bangue for Boring at Clacago to serve the new Salt Laks City-Chicago Rents the fourth contract from Beeing in the last these years, and in also healthur a core manufacturing plant for the Lookhead Armines Cornection at Les Annales Auto will drawn hald and owns complex

under the Undvided Responsibility Method, or will furnish plans, specifications and materials for certica locally Fractice Offices from Coast to Court are received to musty valuable extension on construction for Air Transportation, or far General Industry, anywhere in America, of the folder "Austin Books for Aristics", or The Scatte Blook of Buddens

THE AUSTIN COMPANY, Earloom and Builder, Cleveland

AUSTIN Complete Building Service



The badion field of the Word Power Alesson Co. or broader by agrees the setter. Left saving penebbittes as shown by and coath. It is herd pecked graund, rolling, unded and is bounded on the cost by Bouth Fort Smith, so the south and wort by the Aricense Central Budway and on the north by the Aricense United States Blokway. No. 71. There are the Astronom traveled States Highway, No. 71. There are a number of hus lives on the lughway and the South Fort

e banger. At the covered time, the Fart Smith Alterest Co. is doing Thriag School, giving both pround and fries contrastion.

NITED STATES AIR FORCES

Pilet Drope Life Line on Cutter Who was of absolutes to some skins in distance at may wan

The use of administration to never shape in clothers at see was demonstrated as a resorted according of the unusefular fedure. is an interesting test conducted successfully at Crewy Publi

this lost are very great, according to Good, W. R. Kure. or on many organization about fathe more than 300 pds., If was pended out. The Good Grand believe it constrained for an airplant to serve the real of a light steel colds, and for an hirpann to every the one or a open and from shore, is a short a polic or two at one

The Air Come contributed on intensities entire to the

regent Philippine Caracol. This subject was presented in the show of the 65th Service Boundree, and much sugmeraleful shops of the 66th Serrors Equation, and much assumentalization in don the premiumed energied is proporting it. The methods Liberty contra prepared by the Matter Overhaul, sader the direction of Smill Set Leefiel I. Wells, we me a expectably interesting finance. The Stath Plats Bettles proposed an attention of most of pholics and ensures demonstrations. The statics assume of pholics and ensures demonstrations. and question which turns to the etwart the knowledge of the personnel in sharps. Exhibits from the armsment portion, properly, falore and personale descriptores of Came Ni.

A party of trenty-eacht officers, renohers of the 1927 Class

similar etc. Pullowker the betters the Engineers respected

STROMBERG

AIR ... LAND and WATER

It Is Significant That Commander Byed had Strom-

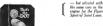
berg Carbaretors on the three Wright Whirlwind Engines in his flight over That Chamberlin and Acosta had them on their Wright Whislwind for their worlds' endurance record, and

Last But Not Least. Captain Lindbergh had the same equipment for his dashing flight from New York to Paris.

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IN 185 NEW YORK TO DARKS NOW STORE ELECTRIC A WINDOW WHITE STATE

And Airman Work in the Branch Court Year proceeding to 11,000 ft. They were followed by three Manproceeding to 11,000 ft. They were followed by three Min-tims and one DH, printed by Literiessen King, Larson, Du-vision and Belland, remotively, proceeding to an effected

use right was taken their was new conds. There apparently was no great improduced to the operation of the paramity and to green impromest to the operation of the enablish's between. There are noward searchisest and Those Nilli-4 hombers tack off, pricted by Capture Horsame named accorders tack off, percent by Capting Handdiph, Lerotemats Marins and Devideon, pursuant to as-structure. They proceeded to the Partit olds to simulate in bandone etterk on the Memferm and Poles Marcel Locks.

1985, related by Landmant Williams, manufact of well, his using the Pedro Migrat Locks for a target, while the other the howher, and DH's. The parant used Very peoble. From then on the please attacked at will. From the point of view of persons on the ground the sespeldight exhibition and the florenked the cone managery was enoughly covered door below to the title tip title. The shiped of this markless was

terference he searchische. Three DEFs took of at dook, pi kited by Lieutenists Confield, Howard and Codet Park, transferred to a train

of 6,000 to 8,000 ft. The wavegit occupied times PW-6's, printed by Carptons The content offset was carried out at \$.00 p.m., th bombers many the rough and of the books, pursuit the spill

Ciabra slabth Sanadam to Basely Sinter

The fifth Observation Squadron, with Livet. Chillred C. Natt, left Weight Field, Fatzfield, Ohto, on May 4 for station at Brooks Field, Texas. This squadron has been at Wright

Changes Field, III.

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